CARR-1586 Patapsco State Park, Sykesville vicinity

Summary:

The Elba Iron Furnace was constructed c.1847 by three Baltimore businessmen, Eben Belknap, John Griffiths, and Ammon Cate. In 1849, Isaac Tyson, Jr. purchased the furnace and approximately 15 acres of land for \$10,000 for his son James Wood Tyson. Tyson also purchased dam and water rights from James Sykes, who had a mill in the vicinity. These rights would prove to be a source, as James' wife Elizabeth Tyson noted in a letter of 1851: "The country is parched for want of rain; the river is very low, so that the furnace has to stop for two or three hours every evening after old Sykes shuts his dam off until it spills and runs over. He built a dam against all James could do who told him it was not legal and now I am only waiting to feel a decisive inconvenience from it and will sue him."

# MARYLAND INVENTORY OF

Maryland Historical Trust HISTORIC PROPERTIES
State Historic Sites Inventory Form

Survey No. CARR-1586

Magi No.

DOE \_\_yes \_\_no

1. Nam	e (indicate pro	eferred name)		
istoric	Elba Furnace			
nd/or common		*		
2. Loca	ition			
street & number	Between CSX Rai	ilroad tracks & P	atapsco River _	not for publication
city, town	Sykesville	_X_ vicinity of	congressional district	
state	Maryland	county	Carrol1	
3. Clas	sification			
Category  district building(s) X structure site object	Ownership  X public private both Public Acquisition in process being considered X not applicable	Status  X occupied X unoccupied work in progress Accessible X yes: restricted yes: unrestricted no	Present Use agriculture commercial educational entertainment government industrial military	museum  X park private residence religious scientific transportation other:
1 Own	or of Propo	rty (give names an	d mailing addragang	of all ormana)
St	er of Propertate of Maryland	rty (give names an	d mailing addresses Natural Resource	
name St	A STATE OF THE STA			s
name St	A STATE OF THE STA	, Department of	Natural Resource telephone no	s
name St	tate of Maryland	, Department of	Natural Resource telephone no and zip code Man	s .:
name Street & number sity, town	tate of Maryland	, Department of I	Natural Resource telephone no and zip code Man	s .:
name Street & number sity, town  5. Local sourthouse, regis	tate of Maryland	state al Description	Natural Resource telephone no and zip code Man	s cyland
name State to the street & number to the stre	tate of Maryland	state al Description	Natural Resource telephone no and zip code Man	s: ryland liber 292
name Street & number city, town  5. Local courthouse, registreet & number city, town	ation of Legative of deeds, etc.	state al Description Courthouse Annex	telephone no and zip code Man	s  ryland  liber 292  folio 380  Maryland
name Street & number city, town  5. Loca courthouse, regis street & number city, town  6. Repr	tate of Maryland  ation of Lega  stry of deeds, etc.  55 North Cour	state al Description Courthouse Annex	Natural Resource telephone no and zip code Man	s  ryland  liber 292  folio 380  Maryland
name Street & number city, town  5. Loca courthouse, regis street & number city, town  6. Repr	tate of Maryland  ation of Lega  stry of deeds, etc.  55 North Cour	state al Description Courthouse Annex	telephone no and zip code  state  Historical Surve	s  ryland  liber 292  folio 380  Maryland
name Street & number city, town Local courthouse, regis street & number city, town Repr itle None	tate of Maryland  tion of Lega  try of deeds, etc.  55 North Cour  Westminster  esentation	state al Description Courthouse Annex	telephone no and zip code  state  Historical Surve	singland  liber 292  folio 380  Maryland

7. Description

MARYLAND INVENTORY OF

Survey No. CARR-1586

Condition

\_ fair

\_\_ excellent \_\_ good X ruins unexposed

Check one
\_\_X unaltered
\_\_\_ altered

X original site

\_\_\_ moved

date of move

Prepare both a summary paragraph and a general description of the resource and its various elements as it exists today.

SEE ATTACHED

1400- 1500- 1600-	-1799 -1899	Areas of Significance—Cl		literature _ military _ music	religion science sculpture social/ humanitarian theater transportation other (specify)
Specific	dates	C.1847	Builder/Architect		
check:	Appl:	cable Criteria:A  nd/or  cable Exception:A		E _F _G	

SEE ATTACHED

# 9. Major Bibliographical References

SEE ATTACHED

10. Geogra	phical Data		
	cesville complete UTM refe	rences	Quadrangle scale 1:24000
A Zone Easting	Northing	B   Zone	Easting Northing
C		D	
Verbal boundary descri			
List all states and counstate	code	county	code
state	code	county	code
11. Form P	epared By		
name/title Kenne	th M. Short, His	storic Planner	
organization Carroll	County Planning	& Develop · dat	te May 25, 1999
street & number 225 N	orth Center Stre	eet <b>tele</b>	ephone (410) 386-2145
city or town Westn	inster	sta	te Maryland

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 supplement.

The survey and inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

return to:

Maryland Historical Trust Shaw House 21 State Circle Annapolis, Maryland 21401 (301) 269-2438

MARYLAND HISTORICAL TRUST.

DHCP/DHCD

100 COMMUNITY PLACE

CROWNSVILLE, MD 21032-2023

514-7600



#### Survey No. CARR-1586

#### MARYLAND HISTORICAL TRUST STATE HISTORIC SITES INVENTORY FORM

Description

Section 7 Page 1

Elbe Furnace is located 3/4 of a mile southeast of Main Street, Sykesville, in Southeastern Carroll County Maryland. The furnace is located on the northside of the Patapsco river, between the river and the scx railroad tracks. The river is about 60' south of the furnace and sweeps in an arch around the site. River road runs on the south side of the river, the tracks are approximately 45' north of the furnace. The furnace is oriented facing southeast with a bank on the northwest. The large stones appear to be dry laid and are quarried containing many signs of drill marks. The structure is constructed primarily of large ashlar stones with some small stone infill. The interior of the stone wall is of smaller stones and the furnace has a lining of witch shaped fire bricks that are 10" long 3" high and are 5 ½ wide at the wide end and 4 ½ wide at the narrow end. The ground level is now much higher, it has been raised in part by the collapse of stones from the top of the structure.

The southeast elevation has a corbeled opening in the center that is 4' 5 ½ wide and at least 5'x 41/2 high. The southwest elevation also has a corbeled opening in the center, but it is much lower than that on the southeast. There is an iron strap with an eye on the end projecting from the wall just south of the opening. The northwest elevation also has a corbeled opening about the same height as the southwest opening, this opening is 2' x 9 1/4 wide at the top but the opening is splayed so that it is wider at the base. This splay is in part due to the fact that all four walls of the furnace are battered. On the northeast elevation there is a great deal of collapse and it is not possible to tell if there is an opening here. There is a banked ramp of earth on the northwest side of the furnace that runs off to the northwest, there the remains of a stone wall on the northwest with a short section of it on the northeast. The northwest elevation was 21' x 8 1/2 inches where it was measured 5' 2" above the ground level. The ground level was determined at the north corner where the structure survives in the best condition, and this is probably close to the original ground level or slightly higher. The surviving structure at the north corner is 16' 8 ¼ inches tall approximately. This is probably close to the original height. The walls batter in about 1 inch in every foot. The southwest elevation was measured to be 21' 8" wide at the same height of 5' 2". This measurement was not exact because one corner is collapsed. The interior of the structure is 8' 8 ½ in diameter from the outside of the brick to the outside of the brick on the opposite side. The lining is one brick thick with the narrow ends set to the inner side and there is a thick brown parging on the outer side of the bricks. There is a gap between the stone wall and the brick lining of 18 ½ to 20 ½ inches. The brown parging is approximately 5" thick, the interior appears to taper in as it goes up to the top.

### MARYLAND HISTORICAL TRUST STATE HISTORIC SITES INVENTORY FORM

Survey No. CARR-1586

Description

Section 7 Page 2

About 100 or so yards upstream is a coursed stone wall along the bank of the river, this wall was at least 100' long and appears to have been constructed with the furnace to protect the furnace area from flooding. To the north of this stone wall is another stone wall along what appears to be a ramp that runs up to the northwest and then turns back to the southeast. About 150' yards or so further upstream is a portion of a dry laid stone wall of fairly large stones, this wall is about 10 to 15' south of the railroad tracks. There is no distinguishing features to determine its original function.

Contributing Resources 3

#### MARYLAND HISTORICAL TRUST STATE HISTORIC SITES INVENTORY FORM

Significance Section 8 Page 1

The Elba Iron Furnace was constructed c.1847 by three Baltimore businessmen, Eben Belknap, John Griffiths, and Ammon Cate. In 1849, Isaac Tyson, Jr. purchased the furnace and approximately 15 acres of land for \$10,000 for his son James Wood Tyson. Tyson also purchased dam and water rights from James Sykes, who had a mill in the vicinity. These rights would prove to be a source, as James' wife Elizabeth Tyson noted in a letter of 1851: "The country is parched for want of rain; the river is very low, so that the furnace has to stop for two or three hours every evening after old Sykes shuts his dam off until it spills and runs over. He built a dam against all James could do who told him it was not legal and now I am only waiting to feel a decisive inconvenience from it and will sue him."

Tyson had apparently researched the costs and performance of a number of Maryland furnaces and estimated that Elba could produce iron at \$20 a ton, delivered to Baltimore. Later refinements brought the cost down to between \$17.50 and \$18.16 a ton, depending on where the iron ore was acquired. Ores were used from George Patterson's Springfield estate, from the Clary ore bank Mt. Airy, from the Rice ore bank in Howard County, and from the Jalbot ore bank near Relay, which was a carbonate ore that was somewhat self-fluxing. At that time, December 1847, the single furnace had a 7 ½ foot diameter bosh with three tuyeres and produced 30 tons a week. In 1859, the furnace was reported to be 30 feet high, with an 8 ½ foot inside diameter. It burned charcoal, though there were reportedly experiments using anthracite coal, and operated both on water and steam power. It was considered to be an efficient hot blast furnace and was rated, in 1857, at 1,500 tons per year. In 1850, most of the labor was from Ireland, and some of it was from Germany. By 1860, most workers were natives of Maryland, with a few from Pennsylvania or Virginia. The July, 1868 flood that destroyed most of Sykesville also wiped out the Elba Furnace shortly after its blast had been blown out, and it was never rebuilt.

At present, much of a stone wall along the shore line of the site survives. The Patapsco River makes an arc to the south, forming a spit of land on which the furnace was constructed. This wall was probably intended to protect the site from typical flooding. The furnace stack survives in part, with portions of a stone wall to the north of the stack. There is sloping ground to the west that is probably a man-made earthen ramp for pushing wheelbarrows of ore, limestone, and charcoal up to the top of the furnace. There is also a stone foundation northwest of the furnace, but it is not possible to tell what it may have originally been. The site is scattered with slag and is now overgrown, which probably conceals other historic landscape features.

Geographic Organization: Piedmont

Chronological/Developmental Periods: Agricultural-Industrial Transition A.D. 1815-1870

Historic Period Themes: Industry

Resource Type: Iron Furnace

## MARYLAND HISTORICAL TRUST STATE HISTORIC SITES INVENTORY FORM

Survey No.CARR-1586

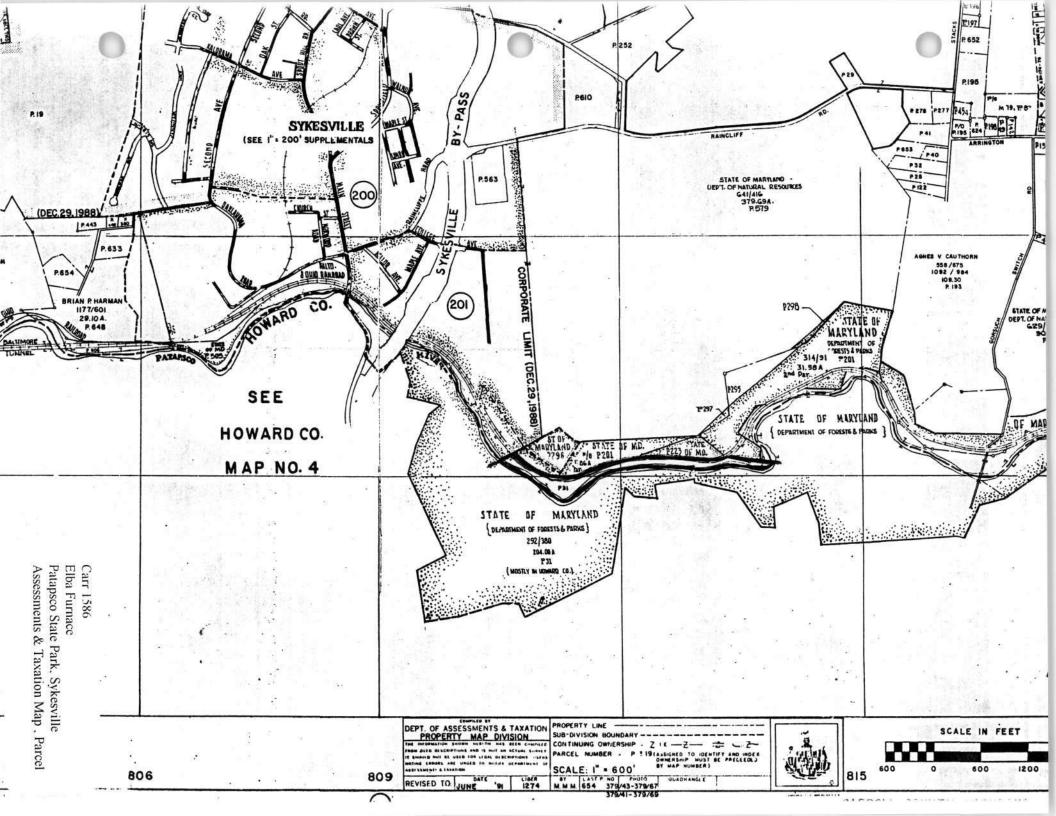
Bibliography

Section 9 Page 1

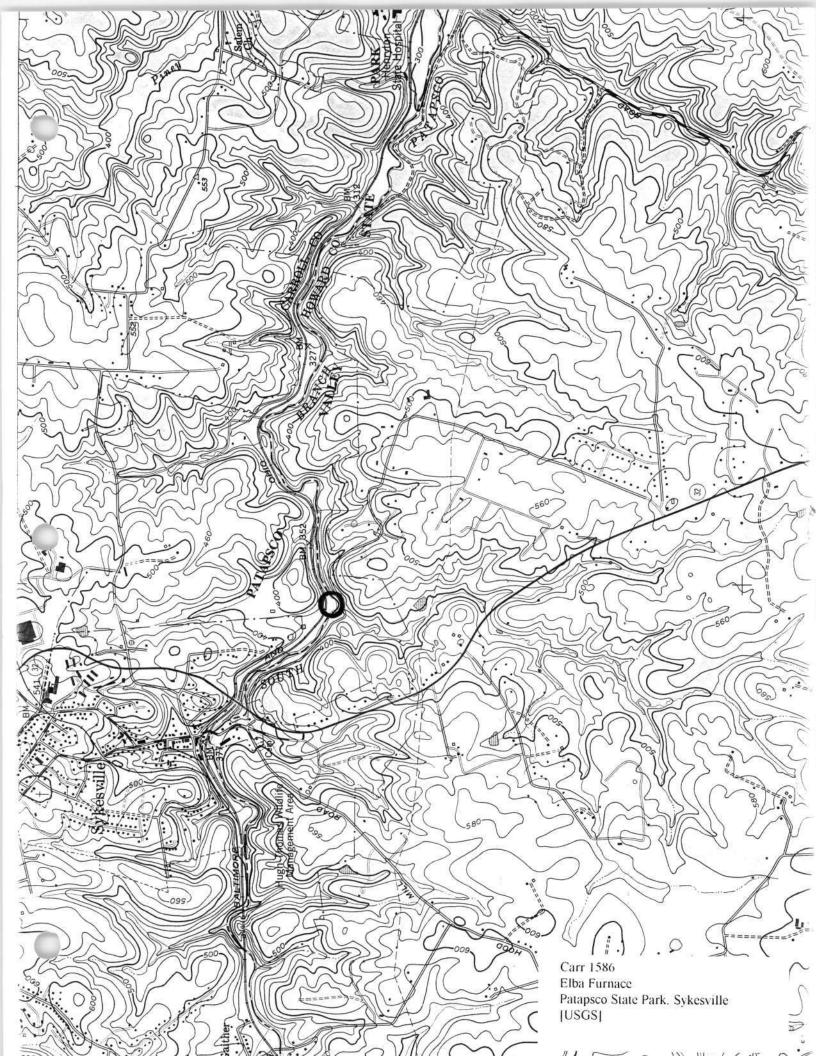
Notes compiled by Harold B. Johnsson, III, March 1997.

Maryland Geological Survey, <u>Iron Ores of Maryland</u>, 1911, pp. 149-150.

Healan Barrow, <u>Sykesville Past and Present</u> (Sykesville: Greenburg Pub. Co., 1987), p.6.









Can-1586 Elba Furnace Patapseo State Park Carroll County, Maryland Photo: Kenneth M. Start Dale: Mar. 97 Neg. Loc Maryland Historical Trust SE Elevation 10F7



Can -1586 Wa Funace Patapsio State Park Corroll County, Maryland Photo Kenneth M. Short Date: Mev. 97 Neg. Loc Maryland Historical Trust Retaining Wall - V. W. Elevation 20F7



Cars-1586 Ella Funace Patapsco State Park Carroll County, Maryland Photo: Kenneth M. Stort Date: Mar 97 Neg Loc Maryland Historical Trust NW Elevation from West



Can 1586 Ella Furnace Patapseo State Park Carroll County, Maryland Photo: Kenneth M Short Date: Mar. 97 Neg Loc: Maryland Historical Trust S.W Elevation 40F1



Can-1586 Ella Funace Patapseo State Park Cornall County, Maryland Photo: Kenneth M. Short Date: Mar 97 Neg Loc. Maryland Historial Frust View from interior looking N.W.



Cars -1586 Elbu Furrace Patapson State Park Corroll Country Maryland Photo: Kenneth M. Short Date: Mar. 97 Neg. Loc Maryland Historical Trust SE Elevation - detail of corbelled opening 6 OF 7



Cars- 1586 Elba Furroce Patupsco State Park Canall County, Maryland Photo: Kenneth M. Short Date: Mw. 97 Neg. Loc Maryland Historical Trust N.E & SE Elevations 70F1



presumed ruin of Elba Furnace Carroll County APR 11 1982 photo by J McGrain

CARR-1556



presumed ruin of Elba Furnace Carroll County Apr 11 1982 photo by J McGrain

CARR-1586